

Cumberland
County
Solid Waste
Management Plan
Revised June 2008

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### Introduction

Cumberland County's Comprehensive Solid Waste Management Plan was prepared in accordance with N.C. General Statue 130A-309.09A(b) for the purpose of meeting local solid waste needs and protecting the public health and the environment. Sections of the plan are ordered as listed in the General Statue.

Through implementation of this comprehensive Solid Waste Management Plan and updates to this plan every three years, the Cumberland County planning area provides for the management of solid waste and its reduction for the next ten years. The planning area includes Cumberland County and the municipalities of Eastover, Falcon, Fayetteville, Godwin, Hope Mills, Linden, Spring Lake, Stedman and Wade. (See Appendix A Resolutions)

Cumberland County's long range planning goal is to develop and coordinate for a comprehensive solid waste management program. This program will provide cost effective collection services, waste reduction programs, and disposal capacity and options to all residents in Cumberland County. The program's goal also works toward reducing the improper and illegal disposal of solid waste throughout the County. Educational goals will provide residents with a thorough knowledge and understanding of waste reduction, proper disposal and their impact on the environment. The goals of Cumberland County Solid Waste Management are listed below by priority.

# **Planning Area Goals**

- 1. To protect public health and the environment.
- 2. To provide county residents with collection services, waste reduction opportunities, and disposal capacity.
- 3. To promote recycling through additional education, improving the recycling facilities used and by providing opportunities to recycle a variety of materials.
- 4. To decrease improper and illegal waste disposal.
- 5. To meet or exceed the state waste reduction goal.
- 6. To increase efficiency and cost effectiveness of area solid waste programs.

# Geographic Area \*

This Solid Waste Management Plan covers Cumberland County and the municipalities of Falcon, Fayetteville, Godwin, Hope Mills, Linden, Spring Lake, Stedman and Wade.

County and Municipalities	Population
Cumberland County (unincorporated)	106,433
Town of Eastover	3,632
Town of Falcon	325
City of Fayetteville	173,910
Town of Godwin	118
Town of Hope Mills	12,536
Town of Linden	140
Town of Spring Lake	8,227
Town of Stedman	681
Town of Wade	543
Total County Population (does not include Fort Bragg or Pope AFB)	306,545

The population in Cumberland County will be increasing in the next two years due to additional troops being assigned to Fort Bragg.

#### **Evaluation of Waste Stream**

In this plan, residential waste refers to waste generated by households (individual & multifamily dwellings). The term commercial refers to waste generated from commercial and industrial waste generators. Construction and demolition waste (C&D) is waste generated from construction activities and is separated and disposed of in a different facility than residential and commercial waste. Site waste refers to waste accepted at the sixteen county convenience / recycling centers. Yard waste refers to all limbs, leaves, and grass trimmings disposed of at the Wilkes Road Treatment & Processing Facility. Pallet waste refers to all skids or pallets. LCID waste refers to material that includes clean brick, block, concrete, asphalt, and clean lumber. Shingle waste refers to shingles off buildings (residential and commercial) including the plywood and framing lumber. Governmental waste refers to waste generated by schools, universities and county entities.

Cumberland County estimates that 18% of its waste stream is residential, 65% is commercial, and 17% is construction and demolition waste. In addition, an unknown amount of LCID waste is disposed of at privately permitted facilities. Waste of all types is being disposed of illegally in the County.

Waste Disposed by Sector, FY 2006-2007

Type of Waste	Tons	% of Waste Stream	
Residential	55,360	18%	
Commercial	203,648	65%	
Construction & Demolition *	50,791	17%	

Cumberland County does not have a waste stream analysis that has been performed themselves; therefore we are using the Quick Waste Stream Analysis that was provided by NC DENR, DPPEA.

\* Construction and Demolition waste in Cumberland County has risen and is expected to continue to rise over the next two to three years. This is due to Fort Bragg demolishing their old buildings to make room for new more modern structures, revitalization of Fayetteville and the demolition of run down houses in the City of Fayetteville and the County.

Quick Waste Stream Analysis for: Cumberland County					
Material	Local Tonnage	Current Recovery	Tons Left In Waste Stream	Percent Recovered	
Aluminum	2450.53	25.57	2476.1	1%	
Automotive Batteries		74.29			
Electronics		119.54			
Food Waste	46560.05	N/A			
Glass - Total	19604.23	114.56	19489.67	1%	
Metal	14703.17	1909.97	12793.2	13%	
Yard Waste/Pallets		38,703.94			
Corrugated Cardboard	14703.17	207.36	14495.81	1%	
Paper - Total	75966.40	997.2	74969.20	1%	
Newsprint		615.37			
Magazines		115.1			
Office Paper		10.43			
Mixed Paper		48.28			
Other Paper		.66			
Plastic - Total	24505.29	62.07	24443.22	0%	
Special Wastes					
Used Oil (Gallons)		14,700			
Antifreeze (Gallons)		287			
HHW (Tons)		28.99			
Textiles	9802.12	76.3	9725.82	1%	
Tires		4394.59			
White Goods	2450.53	1099.07	1351.46	45%	

Listed below are the major commercial and industrial generators and the composition of the waste categories which could be targeted for recycling.

Sources	Tons	Major Materials
Kelly Springfield	40,000	Paper, cardboard, pallets
Cross Creek Mall	11,000	Paper, cardboard, pallets
Hospitals	2,300	Paper, plastic, cardboard, aluminum cans
School/University Systems	3,500	Paper, cardboard, aluminum cans
County/Municipality Offices	1,200	Paper, cardboard, aluminum cans
Motels/Hotels	1,200	Paper, cardboard, aluminum cans, glass
Restaurants/Clubs	22,000	Glass, cardboard, aluminum cans, plastic, paper
Miscellaneous Retail	6,000	Glass, plastic, paper, cardboard, aluminum cans

### **Local Waste Reduction Goals**

Cumberland County has established a goal of 5% waste reduction to be reached by June 30, 2001 and a further goal of 10% to be reached by June 30, 2006.

The waste reduction goals can be converted from percentages to tons diverted by examining population estimates and the past waste disposal figures as supplied by the Solid Waste Section of DENR. The baseline year (FY 1987-88) disposal rate was 1.07 tons per capita at this disposal rate Cumberland County would dispose of 331,216 tons in FY 2005-06 and 354,401 tons in FY 2009-10.

Year	Population	Waste Disposal	Per Capita Disposal Rate
Baseline Year, 1987-88	265,415	285,270.16 *	1.07
Year	Projected Population	Projected Waste Disposal	
FY 2005-2006	316,153	338,283 **	1.07
FY 2009-2010	331,216	354,401 **	1.07

<sup>\*</sup> Does not include Fort Bragg & Pope Air Force Base waste

To meet the local goal of 5% per capita waste reduction in FY 2000-01 and 10% in FY 2005-06 Cumberland County must reduce its per capita disposal rate to 1.07 and

<sup>\*\*</sup> Will include Fort Bragg & Pope Air Force Base waste

.96 tons per capita respectively. Using the new per capita rates the target annual tonnage remaining for disposal for Cumberland County would be 322,476 tons in FY 2005-06 and 340,225 tons in FY 2009-10. These goals will be evaluated in three years to determine if they can be increased.

Calculations	FY 2005-06	FY 2009-10
Baseline year per capital disposal rate	1.07	1.07
Targeted per capita disposal rates	1.02	.96
3. Population projections for July 2005/July 2010	304,382	312,262
Projected tonnages at baseline disposal rate	331,216	354,401
5. Projected tonnages at goal disposal rates	322,476	340,225
Targeted annual tonnage reductions (subtract line 5 from line 4)	8,740	14,176

# The Planning Process and Public Participation

The planning process was begun by contacting each municipality in the County to determine if they were going to participate in the Solid Waste Plan or if they were going to plan for solid waste as an individual planning unit. Requests for information concerning solid waste from the municipalities were obtained and the County of Cumberland Solid Waste Management Department then compiled the plan.

A public meeting was then held for plan review at the Cumberland County Solid Waste Management Training and Visitors Center.

# Assessment of Current Programs and Description of Intended Actions

#### **Source Reduction**

#### Current

Education of the citizens of Cumberland County plays on important role in source reduction. Cumberland County Solid Waste uses various types of material in its source reduction educational program. These include speakers to schools and civic organizations, printed material, and web site. Cumberland County also uses displays at the County fair and local festivals. A very close working relationship with the Cooperative Extension service also proves to be another source for putting the information into the rural areas of the County. The County implemented a tip fee increase from two dollars per to twenty-nine dollars per ton in 1990, current rates are \$30 per ton for garbage and \$37 per ton for construction waste; this should be an incentive for commercial and industrial generators to reduce waste.

#### Intended Action

Cumberland County will continue to utilize the same programs that are now being used. We will however continue to look for materials and methods that may be more effective.

#### Collection

#### Current

Cumberland County does not provide for collection of solid waste at the curb, but it does offer sixteen staffed drop-off centers throughout the county for its residential waste with each resident living within seven miles of a site (see Appendix A for site locations and hours). Each convenience center has containers or a compactor for household waste and open top containers for metal and yard debris. They also have containers for recycling and cement areas for white goods drop-off. Cumberland County Solid Waste Management manages and hauls waste from each convenience center to either the Ann Street Landfill or the Wilkes Road Treatment & Processing Facility.

Private solid waste haulers provide pick-up service to the unincorporated areas of Cumberland County.

The municipalities of Falcon, Fayetteville, Hope Mills and Stedman operate a curbside collection system for its residents using municipal employees. The Towns of Linden and Spring Lake have curbside collection of solid waste through a contract. The Towns of Eastover, Godwin and Wade offer no collection services by

either municipal employees or contracted haulers. The residents of these towns either use the county drop-off centers or contract for services themselves.

#### **Intended Action**

At the present time Cumberland County will continue to operate the drop-off method for collection, but will be receptive to other methods of collection should it be deemed cost-effective for its Citizens.

The municipalities within the County are going to proceed as they are now, but will also be looking for other methods depending on comparison. All towns will be encouraged to evaluate their collection process. The goal is to make it more efficient, user friendly, and to encourage a recycling program that can be used by both residents and businesses.

#### Recycling and Reuse

#### Current

Recycling in Cumberland County is voluntary for the citizens. The County offers recycling for its citizens at the sixteen staffed drop-off centers and the Ann Street Landfill. Scrap metal, used oil, aluminum cans, newspaper, magazines, glass bottles & jars, corrugated cardboard, textiles, ink jet/laser printer cartridges, computers, telephone books, and automotive batteries are accepted at convenience centers for recycling. The Recycling Center at the Ann Street Landfill accepts office paper for recycling.

Antifreeze is accepted for recycling at the Household Hazardous Materials Collection Center on Wilkes Road along with other household hazardous materials.

White goods, both CFC and non-CFC, and plastic are accepted at fourteen of the sixteen county drop-off centers and the Ann Street landfill.

Clean pesticide containers are accepted for recycling at five of the convenience centers.

Cumberland County Solid Waste Management has placed recycling containers in school buildings and in county government offices for the recycling of office paper, newspaper & magazines mixed, plastic, aluminum cans, and cardboard. These containers are picked up weekly.

There are additional recycling convenience centers in Fayetteville. Containers are available for newspaper, magazines, and plastic. Some centers are located at fire stations which have trailers for aluminum cans.

#### **Intended Actions**

Cumberland County will continue to recycle the items it is now taking at the convenience centers and as it becomes more economically feasible more items will be added.

Other municipalities in the County are not planning any changes in their current programs; however, the City of Fayetteville has a curb side recycling program starting in July 2008.

#### Mulching

#### Current

Mulching of wood and yard waste is an important part of the reduction program in Cumberland County. This is accomplished with County equipment and labor force.

Leaves, pine straw, grass clippings, branches, tree limbs, and other clean wood is shredded and either sold to the citizens as screened mulch or transported off-site for use as boiler fuel.

The municipalities in Cumberland County do not operate mulching facilities.

#### Intended Actions

The County has no plans to change its operation nor do the municipalities intend to add mulching or composting facilities. Clean wood waste from our C&D recycling at the Ann Street landfill will be transported to the Wilkes Road T&P Facility for shredding and then dying.

### Incineration with Energy Recovery

#### Current

At the time Cumberland County is not incinerating MSW for energy recovery, nor are the municipalities located in Cumberland County. However, we are exploring the idea.

#### Intended Action

No action is expected to be taken in regards to this in the near future. We are looking at a cost effective solution.

#### **Incineration Without Energy Recovery**

#### Current

Will only be used in an extreme emergency. (For wood waste only)

#### **Intended Action**

No Action

### **Transfer Outside the County**

#### Current

Transfer of solid waste outside of the County from residential waste is not being done by the County or any of its municipalities, except some of the City of Fayetteville's commercial waste and mixed loads of C&D waste go to an out of county regional landfill. Fort Bragg transfers its MSW to a regional landfill outside of the county.

#### **Intended Action**

Cumberland County has plans to transfer its waste outside of the county as a contingency if the landfill operation should be discontinued.

#### Disposal

#### Current

Residential solid waste generated in Cumberland County and its municipalities waste is presently disposed of in the County owned and operated Subtitle D landfill.

Commercial waste for the City of Fayetteville can be disposed of in the county landfill. Commercial waste from the municipalities of Eastover, Falcon, Godwin, Linden, Spring Lake, Stedman, and Wade is disposed of at the county landfill or may be taken to an out of county regional landfill.

#### Intended Action

To continue using the Subtitle D Landfill which should serve the county for the next 14 years. The county will also explore new and innovative ways for waste disposal as they become available. Expansion of the Subtitle D Landfill will take place in three phases. Phase II was completed in 2000 as projected in last update. Phase III design should begin in 2009 and last until 2013 when cells 9 and 10 will be built with a projection of 2021 for the landfill build-out. However, we will explore the possibilities of piggy-backing off the old unlined landfill to the subtitle d landfill if a waste to energy plant isn't built.

# Assessment of Current Program and Description of Intended Action In Regards To Community and School Education, Special Waste, Illegal Disposal, Buy Recycled Program

#### **Community and School Education**

#### Current

Cumberland County provides an education and information program consisting of informational literature, landfill tours, speakers for civic, school and business groups.

- 1. Printed material about waste reduction and recycling.
- 2. An educational video written by Cumberland County Solid Waste and filmed by FTCC Media Services that is available in the County Library.
- 3. Radio advertising about recycling.
- 4. A solid waste hotline for questions about recycling (485-6914).
- 5. Education and information brochures and one-on-one contact with citizens at the County Fair and other scheduled activities.
- 6. Public speakers available to any group desiring information about solid waste and recycling.
- 7. A video on proper disposal and storage of household hazardous waste was produced through the Cooperative Extension Service for the County.
- 8. Site attendants distribute materials one-on-one to site users.

These programs are very well received and work well.

#### **Intended Actions**

The County has no plans to change its present educational program.

# **Special Waste**

#### White Goods

#### Current

White Goods are accepted at the Ann Street landfill and fourteen county drop-off centers. CFC's are removed from refrigerated or cooling units on site by county employees certified in CFC removal. Cumberland County Solid Waste Management

truck drivers load boxes using a grappling hook with all white goods and scrap metal which is then hauled to a metal recycler.

#### **Intended Actions**

Add collection of White Goods to additional drop-off centers that have enough room. Continue to monitor the metal market to get the best price for our recycled metal.

#### Household Hazardous Waste

#### <u>Current</u>

Cumberland County operates a permanent collection facility for household hazardous waste. This facility is staffed by OSHA trained county employees for segregation and identifying the types of waste received. The facility is open the 2<sup>nd</sup> and 4<sup>th</sup> Saturday of each month from 8:00 a.m. until 4:00 p.m. We accept paint (oil base and latex), general use pesticides, flammable liquids, antifreeze, NiCad batteries, lead acid batteries, used oil, household cleaners, spent pool chemicals and hobby supplies.

This program is well received by the citizens of Cumberland County and is working well, to reduce the toxicity of MSW disposed of in the Ann Street landfill.

#### Intended Action

The County has no plans to change its present program.

#### **Tires**

#### Current

Tires without rims are accepted at all sixteen County drop-off centers and are then transferred to the Ann Street Landfill. Tires with and without rims are accepted at the Ann Street Landfill where they are placed in trailers. Tires must be stacked in the trailers. Central Carolina Tire in Cameron, NC provides three trailers to store the tires and they are called when a trailer is full. The trailer is picked up and an empty trailer is left to be used for the next load.

Cumberland County Solid Waste Management assists in clean-up projects of old tires dumped illegally or abandoned on property.

#### Intended Action

Cumberland County will continue as in the past to determine the most economically feasible method for tire disposal. Cumberland County Solid Waste Management receives monies from the statewide tire tax funds to collect and dispose of tires.

#### **Construction and Demolition Waste**

#### Current

Cumberland County operates a C&D landfill adjacent to the MSW landfill on Ann Street. Separation of cardboard, metal and unpainted wood is voluntary; we have employees using equipment and manual labor removing as much as feasible. The cardboard and metal are placed in a containers for recycling, and the unpainted wood is removed and taken to the Wilkes Road Treatment & Processing Facility for mulching. All concrete and dirt is placed in a separate area for crushing and recycle as road base.

Fort Bragg also operates a C&D landfill for use by on-base contractors and military personnel.

#### **Intended Action**

Cumberland County will continue to manage C&D waste in the current manner, until a more cost effective method is found.

#### **Yard Waste**

#### Current

Yard waste (grass clippings and leaves), tree limbs and brush that is disposed of at the Wilkes Road Treatment & Processing Facility is shredded for mulch. Mulch is used for boiler fuel; the fine screened mulch is sold to the public.

#### **Intended Action**

Cumberland County has no plans at this time to alter its management practice for yard waste disposal.

### **Illegal Disposal**

#### Current

Prevention of illegal disposal is encouraged by offering convenient hours for disposal at all container sites. Two full-time enforcement personnel work five days a week to deter illegal disposal. These enforcement officers work with the state statues and the county solid waste ordinance that allows civil penalties up to \$500.00 per day for illegal disposal. They also work with the Solid Waste Division of DENR to close unpermitted solid waste facilities in the county. The methods used are working and are well received by the citizens of Cumberland County and the State Solid Waste Section.

#### **Intended Action**

Cumberland County Solid Waste Management will continue to improve and strengthen its Solid Waste Ordinance.

In conjunction with the Cumberland County Sheriff's Department our Solid Waste Inspectors will be able to inquire on vehicle tags reported as illegally dumping waste, which in turn will allow them to write violations and fine individuals. Our Solid Waste Inspectors will continue to investigate all reports of illegal dumping of waste by visually inspecting areas reported, taking pictures, writing violations, writing civil citations and even going to Environmental Court for individuals that refuse to clean up illegally disposed of waste. If needed, Solid Waste Inspectors will clean up illegally disposed of waste if they can find no evidence of who disposed of the waste.

The Sheriff's Department will help enforce the Solid Waste Ordinance and the litter and illegal dumping laws in Cumberland County. Deputies are called upon as needed.

#### **Buy Recycled**

#### Current

Cumberland County has no ordinance or resolution requiring departments to make purchases of products containing recycled material. However, when these products are price competitive it is recommended that they be used.

#### **Intended Action**

Continue to make purchases of products containing recycled content material when they are cost competitive.

# **Disaster Response**

#### Current

Cumberland County Solid Waste Management has a designated employee to help staff the Emergency Operations Center. This employee has a list of equipment, and personnel that can be utilized in the event a disaster is declared. The county also has designated staging areas for the disposal of debris until it can be processed properly. Cumberland County also maintains a list of contractors that can be called in to assist with processing.

#### Intended Action

The county will continue to operate with its existing disaster response program.

# **Full Cost of Solid Waste Management**

Cumberland County has a budget for landfill operations, collection of solid waste, recyclables and household hazardous waste. The City of Fayetteville, Towns of Hope Mills, Spring Lake, Falcon, Linden, and Stedman have budgets for the collection of solid waste either by municipal employees or contract haulers. These costs are listed below with a more detailed cost analysis for each program shown in Appendix B.

Table 7

Local Government	Budget Year	Collection	Disposal	Recycling	Other	Total
Cumberland County	2006-07	802,917	2,660,671	970,193	927,471	5,361,252
Fayetteville	2006-07	7,549,079	105,921	1.050	1	7,656,050
Hope Mills	2006-07	388,152				388,152
Spring Lake	2006-07	390,638	22,155			412,793
Falcon	2006-07	2,016				2,016
Linden	2006-07	14,278		·		14,278
Stedman	2006-07	39,192				39,192

# **Method of Financing**

Solid waste in Cumberland County is financed through tipping fees and user fees.

- a. Residents are charged a solid waste user fee on their tax bills.
- b. Commercial and industrial refuse disposal is charged a tipping fee by the ton as it enters the landfill.

- c. The County's intent is to keep Solid Waste Management functions selfsupporting through tipping fees and solid waste user fees as an enterprise fund program.
- d. Tire disposal is funded through state reimbursement of the tire disposal tax.
- e. White good disposal is funded through state reimbursement of the white goods disposal tax.

Cumberland County Municipalities finance solid waste through household fees, general fund or a combination of the two.

### **Privately Owned Facilities**

There are no privately owned solid waste disposal facilities in Cumberland County. There are approximately six LCID facilities permitted within the County.

# **Appendix A – Container Sites**

# Appendix B - Full Cost Accounting

**Cumberland County** 

sw collection	# hh served		tons collected by us	total tons		
sw disposal	total tons	177756	22910	224421		
recycling	#hh served	96506		r		
recycling	total tons	8294				
mulching	#hh served	96506		•		
mulching	total tons	38371				
•	2007 Actual	Solid Waste Collection	Solid Waste Disposal	Recycling	Mulching	Total Cost
Transportation	\$482,578	\$313,676	•	\$120,645	\$48,258	\$482,578
Sites	\$734,106			\$146,821	\$146,821	\$734,106
Maintenance	\$119,483		\$59,742	\$11,948	\$17,922	\$119,483
Administration	\$378,147		\$189,074	\$56,722	\$113,444	\$378,147
Recycling	\$420,064			\$420,064	<b>4</b>	\$420,064
White Goods	\$213,993			\$213,993		\$213,993
Wilkes	\$601,025			, , , , , , , , , , , , , , , , , , , ,	\$601,025	\$601,025
Ann St	\$2,411,856	•	\$2,411,856		770.,020	\$2,411,856
Totals	\$5,361,252	\$802,917	\$2,660,671	\$970,193	\$927,471	<b>42,411,000</b>
	•					
Program Cost		\$802,917	\$2,660,671	\$970,193	\$927,471	\$5,361,252
Cost per househ	old		•	•	,	,
Cost per ton		\$35.05	\$14.97	\$116.98	\$24.17	\$23.89
-		this total uses 22910 as				
•	•	tons collected by our				
		trucks - not total tons				
		disposed of at ann st				

# Appendix C - Adopted Resolutions

#### TOWN OF LINDEN

Resolution to Approve the Cumberland County Solid Waste Plan

WHEREAS, better planning for solid waste will help protect public health and the environment, provide for an improved solid waste management system, better utilize our natural resources, control the cost of solid waste management; and,

WHEREAS, NC General Statute 130A-309.09A(b) requires each unit of local government, either individually or in cooperation with other units of local government, to develop a 10-year comprehensive solid waste management plan,

NOW, THEREFORE, BE IT RESOLVED that the Town of Linden hereby approves the Cumberland County comprehensive solid waste management plan.

Adopted this 20<sup>th</sup> day of June 2000.

ATTEST

Sue Giles, Clerk

TOWN OF LINDEN

C. Leo Kelly, Mayor

Town of Linden

#### RESOLUTION

WHEREAS, the 1995 Pace 5x8 trailer, VIN#4FPFB0811SG006850, Cumberland County Property #700754, owned by Cumberland County and is used by the Cumberland County Sheriff's Office Search & Rescue Team, is not large enough and does not provide adequate space for all of the Search and Rescue Teams' equipment: and

WHEREAS, the Sheriff's Department requests that said 1995 Pace trailer be declared surplus; and

WHEREAS, The Aqua-Nut Dive Service, Inc., has consented to trade a 1992 Haulmark 7x14 trailer to the County; and

WHEREAS, each trailer has a value of \$1,750; and

WHEREAS, NCGS 160A-267 gives the Board of Commissioners the authority to dispose of property by private sale.

NOW THEREFORE BE IT RESOLVED that Cumberland County trade a 1995 Pace 5x8 trailer to Aqua-Nut Dive Service, Inc. for 1992 Haulmark 7x14 trailer.

D. Consideration of the Adoption of a Resolution approving the Cumberland County Solid Waste Plan pursuant to HB859.

BACKGROUND: The General Statutes require all counties and municipalities to develop and adopt a Ten Year Solid Waste Management Plan. The plans must be adopted by July 1, 1997 and include a waste reduction goal that works toward achieving the state goal of 40% waste reduction. Due to the BCH Energy Project, the decision was made to prepare a joint Solid Waste Management Plan for Cumberland, Bladen and Hoke Counties, including the several municipalities located in the three counties. The long-range planning goals are as follows: (1) protect public health and the environment; (2) provide planning with collection services, waste reduction opportunities and disposal opportunities; (3) decrease improper disposal; (4) work toward the state reduction goal; and (5) increase efficiency and cost effectiveness of area solid waste programs.

PROPOSED ACTION: Adopt Resolution approving the Plan for the BCH Counties.

#### RESOLUTION

WHEREAS, better planning for solid waste will help protect public health and the environment, provide for an improved solid waste management system, better utilize our natural resources, control the cost of solid waste management; and

WHEREAS, NC General Statute 130A-309.09A(b) requires each unit of local government, either individually or in cooperation with other units of local government to develop a 10-year comprehensive solid waste management plan; and

WHEREAS, Cumberland County was adequately represented on the Cumberland County Planning Advisory Committee and has been actively involved in the planning process.

NOW THEREFORE BE IT RESOLVED that the County Commissioners of Cumberland County hereby approves the Cumberland County Comprehensive Solid Waste Management Plan.

Adopted the 16th Day of June, 1997.

- E. Consideration of Civic Center Equipment Bids:
  - (1) Spotlights for the Crown Coliseum

Bid: Theatrical Lighting System: \$52,052

PROPOSED ACTION: Award the Bid to Theatrical Lighting System in the amount of \$52,052.

(2) Portable Chairs for the Crown Coliseum

Bids: Clarin

\$131,944

KI/Krueger Int.

\$ 87,840

Although two bids were received, review of the bids indicate specifications were not sufficiently clear.

PROPOSED ACTION: Reject the bids and authorize staff to clarify the specifications and rebid the portable chairs.

(3) Cooling Tower for the Auditorium/Arena

Bids: Brady Services:

\$30,850

Cyrco Inc.

\$35,287.04

PROPOSED ACTION: Award the bid to Brady Services, Inc. in the amount of \$30,850.

F. Consideration of Approval of the Exchange of Real Estate with Laurice and Zula Hubbard (East Regional Branch Library site)

BACKGROUND: On November 18, 1996, the Board approved a Real Estate Exchange Agreement between the County

# RESOLUTION OF THE BOARD OF ALDERMAN OF THE TOWN OF SPRING LAKE, NORTH CAROLINA

WHEREAS, on June 20, 1991 the Board of Commissioners of Cumberland County enacted a Solid Waste Management Plan for the County; and

WHEREAS, said plan established a comprehensive method of handling all of the municipal solid waste generated in Cumberland County and its municipalities; and

WHEREAS, Cumberland County has received approval to be a Designated Geographic Area for the disposal of municipal solid waste; and

WHEREAS, Cumberland County has entered into an agreement with BCH Energy, L.P. to operate a recycling and waste to energy facility in cooperation with Hoke and Bladen Counties;

WHEREAS, it is beneficial to the Town of Spring Lake and its citizens to become a part of this comprehensive plan for managing the municipal solid waste in the three county area;

NOW, THEREFORE, BE IT RESOLVED that the Board of Aldermen of the Town of Spring Lake, North Carolina, pursuant to Section 130A-294 (5a) of the North Carolina General Statutes, declares that:

1. The Town of Spring Lake hereby requests the North Carolina Department of Environmental Health and Natural Resources to include the Town of Spring Lake in Cumberland County's Designated Geographic Area for the purposes of disposing of

# RESOLUTION OF THE BOARD OF COMMISSIONERS OF THE TOWN OF HOPE MILLS, NORTH CAROLINA

WHEREAS, on June 20, 1991 the Board of Commissioners of Cumberland County enacted a Solid Waste Management Plan for the County; and

WHEREAS, said plan established a comprehensive method of handling all of the municipal solid waste generated in Cumberland County and its municipalities; and

WHEREAS, Cumberland County has received approval to be a Designated Geographic Area for the disposal of municipal solid waste; and

WHEREAS, Cumberland County has entered into an agreement with BCH Energy, L.P. to operate a recycling and waste to energy facility in cooperation with Hoke and Bladen Counties;

WHEREAS, it is beneficial to the Town of Hope Mills and its citizens to become a part of this comprehensive plan for managing the municipal solid waste in the three county area;

NOW, THEREFORE, BE IT RESOLVED that the Board of Commissioners of the Town of Hope Mills, North Carolina, pursuant to Section 130A-294 (5a) of the North Carolina General Statutes, declares that:

- 1. The Town of Hope Mills hereby requests the North Carolina Department of Environmental Health and Natural Resources to include the Town of Hope Mills in Cumberland County's Designated Geographic Area for the purposes of disposing of municipal solid waste and long term planning for the handling of municipal solid waste; and
- 2. The Town Manager is hereby directed to take all actions and is empowered to execute all documents necessary to include the Town of Hope Mills within Cumberland County's Designated Geographic Area.
- 3. The Board of Commissioners of the Town of Hope Mills shall enact Cumberland County's solid waste ordinance, especially as it applies to flow control

# PESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF STEDMAN, NORTH CAROLINA

WHEREAS, on June 20, 1991 the Board of Commissioners of Cumberland County enacted a Solid Waste Management Plan for the County; and

WHEREAS, said plan established a comprehensive method of handling all of the municipal solid waste generated in Cumberland County and its municipalities; and

WHEREAS, Cumberland County has received approval to be a Designated Geographic Area for the disposal of municipal solid waste; and

WHEREAS, Cumberland County has entered into an agreement with BCH Energy, L.P. to operate a recycling and waste to energy facility in cooperation with Hoke and Bladen Counties;

WHEREAS, it is beneficial to the Town of Stedman and its citizens to become a part of this comprehensive plan for managing the municipal solid waste in the three county area;

NOW, THEREFORE, BE IT RESOLVED that the Town Council of the Town of Stedman, North Carolina, pursuant to Section 130A-294 (5a) of the North Carolina General Statutes, declares that:

1. The Town of Stedman hereby requests the North Carolina Department of Environmental Health and Natural Resources to include the Town of Stedman in Cumberland County's Designated Geographic Area for the purposes of disposing of municipal solid

# RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF WADE, NORTH CAROLINA

WHEREAS, on June 20, 1991 the Board of Commissioners of Cumberland County enacted a Solid Waste Management Plan for the County; and

WHEREAS, said plan established a comprehensive method of handling all of the municipal solid waste generated in Cumberland County and its municipalities; and

WHEREAS, Cumberland County has received approval to be a Designated Geographic Area for the disposal of municipal solid waste; and

WHEREAS, Cumberland County has entered into an agreement with BCH Energy, L.P. to operate a recycling and waste to energy facility in cooperation with Hoke and Bladen Counties;

WHEREAS, it is beneficial to the Town of Wade and its citizens to become a part of this comprehensive plan for managing the municipal solid waste in the three county area;

NOW, THEREFORE, BE IT RESOLVED that the Town Council of the Town of Wade, North Carolina, pursuant to Section 130A-294 (5a) of the North Carolina General Statutes,—declares that:

1. The Town of Wade hereby requests the North Carolina Department of Environmental Health and Natural Resources to include the Town of Wade in Cumberland County's Designated Geographic Area for the purposes of disposing of municipal solid

# RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF GODWIN, NORTH CAROLINA

WHEREAS, on June 20, 1991 the Board of Commissioners of Cumberland County enacted a Solid Waste Management Plan for the County; and

WHEREAS, said plan established a comprehensive method of handling all of the municipal solid waste generated in Cumberland County and its municipalities; and

WHEREAS, Cumberland County has received approval to be a Designated Geographic Area for the disposal of municipal solid waste; and

WHEREAS, Cumberland County has entered into an agreement with BCH Energy, L.P. to operate a recycling and waste to energy facility in cooperation with Hoke and Bladen Counties;

WHEREAS, it is beneficial to the Town of Godwin and its citizens to become a part of this comprehensive plan for managing the municipal solid waste in the three county area;

NOW, THEREFORE, BE IT RESOLVED that the Town Commissioners of the Town of Godwin, North Carolina, pursuant to Section 130A-294 (5a) of the North Carolina General Statutes, declares that:

1. The Town of Godwin hereby requests the North Carolina Department of Environmental Health and Natural Resources to include the Town of Godwin in Cumberland County's Designated Geographic Area for the purposes of disposing of municipal solid

# RESOLUTION OF THE TOWN COMMISSIONERS OF THE TOWN OF FALCON, NORTH CAROLINA

WHEREAS, on June 20, 1991 the Board of Commissioners of Cumberland County enacted a Solid Waste Management Plan for the County; and

WHEREAS, said plan established a comprehensive method of handling all of the municipal solid waste generated in Cumberland County and its municipalities; and

WHEREAS, Cumberland County has received approval to be a Designated Geographic Area for the disposal of municipal solid waste; and

WHEREAS, Cumberland County has entered into an agreement with BCH Energy, L.P. to operate a recycling and waste to energy facility in cooperation with Hoke and Bladen Counties;

WHEREAS, it is beneficial to the Town of Falcon and its citizens to become a part of this comprehensive plan for managing the municipal solid waste in the three county area;

NOW, THEREFORE, BE IT RESOLVED that the Town Commissioners of the Town of Falcon, North Carolina, pursuant to Section 130A-294 (5a) of the North Carolina General Statutes, declares that:

1. The Town of Falcon hereby requests the North Carolina Department of Environmental Health and Natural Resources to include the Town of Falcon in Cumberland County's Designated Geographic Area for the purposes of disposing of municipal solid

# RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF LINDEN, NORTH CAROLINA

WHEREAS, on June 20, 1991 the Board of Commissioners of Cumberland County enacted a Solid Waste Management Plan for the County; and

WHEREAS, said plan established a comprehensive method of handling all of the municipal solid waste generated in Cumberland County and its municipalities; and

WHEREAS, Cumberland County has received approval to be a Designated Geographic Area for the disposal of municipal solid waste; and

WHEREAS, Cumberland County has entered into an agreement with BCH Energy, L.P. to operate a recycling and waste to energy facility in cooperation with Hoke and Bladen Counties;

WHEREAS, it is beneficial to the of Town of Linden and its citizens to become a part of this comprehensive plan for managing the municipal solid waste in the three county area;

NOW, THEREFORE, BE IT RESOLVED that the Town Council of the Town of Linden, North Carolina, pursuant to Section 130A-294 (5a) of the North Carolina General Statutes, declares that:

1. The Town of Linden hereby requests the North Carolina Department of Environmental Health and Natural Resources to include the Town of Linden in Cumberland County's Designated Geographic Area for the purposes of disposing of municipal solid

11. Consideration of a proposed Landfill Franchise and Lease Agreement for BCH Energy Project.

BACKGROUND: The County has received an offer to lease portions or our Ann Street Landfill facility and its equipment for 25 years. BCH, Inc. has offered a annual rent of \$328,287.00 to use our facilities and equipment to separate municipal solid waste into salable recyclables and fuel. BCH would reduce the volume of waste going into our landfill be 80% and allow the County reach its recycling objectives under Senate Bill 111. The County would also enter into an Resource Recovery Agreement with Bladen County, Hoke County and BCH. This agreement provides that the County will pay BCH \$35.15 to separate each ton of municipal solid waste into salable recyclables and salable fuel product. The County would share in the proceeds from the sale of the recyclables by BCH.

RECOMMENDATION: That the Commissioners enter into a long-term agreement with BCH to operate a materials recovery facility on our Ann Street Landfill property by:

- 1. approving the grant of a franchise to BCH to use our landfill facilities and equipment as provided in the ordinance.
- 2. resolve to declare the property not needed for the 25 year lease and to announce your intention to execute the Lease on December 2, 1991, after notice of ten days unless an upset bid is received.

PROPOSED ACTION: Approve the first reading of the Franchise, direct publication of notice of upset bid and declare your intent to enter into a Resources Recovery Agreement with BCH Corporation on December 2, 1991, or as soon as practicable thereafter, contingent on non-receipt of an upset bid to the lease agreement.

Commissioner Barber had some questions concerning the cost of this program to the county. Mr. Strassenburg noted that it is estimated the county would save approximately \$6.50 per ton by entering into this agreement as opposed to the county operating a mandatory curbside recycling program. (These figures are for FY94)

#### PROJECTED FY 94 ANN STREET LANDFILL OPERATIONAL COSTS

Ma	County Operating ndatory Countywide de Recycling Program	Proposed BCH Energy Project
Gross Costs		
MRF Operation @ \$35.15/ton		6,151,250
Curbside Recycling @		
\$35.00/HH/Year	3,650,527	••
Landfill Disposal	4,812,434	2,542,783
Total Gross Costs	8,462,961	\$8,694,033
Gross Cost Per Ton	\$44.46	\$44.13
Revenues		
MRF residue disposal @ \$25.15/ton		565.875
Sales of recyclables	170,000	511,875
Lease payment		328,287
Total Revenues	\$ 170,000	\$1,405,162
Net Cost	\$8,292,961	\$7,288,871
Net Cost Per Ton	\$43.56	\$37.00

The Board also asked questions concerning contaminated recyclables. It was noted we would in fact be operating a dirty mrf; however, that does not mean that those "contaminated" recyclables are not salable, they will just sell for a lower price.

MOTION: Commissioner Barber offered a motion to approve the Proposed Action

as outlined above.

SECOND: Commissioner Gonzalez

VOTE: UNANIMOUS

12. Executive Session - Real Estate Matter and Legal Matter

MOTION: Commissioner Gonzalez offered a motion to go into Executive Session

to discuss and real estate matter and a legal matter.

SECOND: Commissioner Barber

VOTE: UNANIMOUS

MOTION: Commissioner Gonzalez offered a motion to go back into Regular Session.

SECOND: Commissioner Barber

VOTE: UNANIMOUS

NOTION: Commissioner Evans offered a motion that the Board approve the purchase of a 2 acre tract in Rockfish Township, as a waste container site, pursuant to the terms and conditions set forth in the offer to purchase, and authorize the County Manager to execute the offer to purchase, and approve an amendment to the

SECOND: Commissioner Gonzalez

VOTE: UNANIMOUS

10. Presentations regarding solid waste disposal:

#### A. Presentation from Reed Recycling Company

Mr. Bud Dimeco, Recycling Coordinator for Reed Recycling, reviewed briefly the history of the Company. He noted there are currently three recycling centers in Cumberland County run by Reed Recycling. He also noted that in September a program consisting of recyclable plastic vendor hangers and oil bottles/anti-freeze containers came on line. In addition a second recycling program was established with a major photo processing company with Cumberland County. Mr. Dimeco noted his company currently employs 4 workers and uses the handicapped personnel at the Adult Activities Center.

Mr. Reed said that Reed Recycling has been servicing Cumberland County since May, 1990 and that recycling costs have outweighed their margin for profit. he asked the Board to consider a fee of \$30.00 per ton for containers received from the County (some of which contain some contamination).

B. Presentation from Browning-Ferris Industries (BFI).

Mr. Strassenburg, County Manager, noted BFI indicated to him in October they were not yet far enough along in their negotiations relative to a regional landfill to provide an estimate of the cost of their regional landfill concept. Mr. Strassenburg noted that this proposal is not an upset bid under the terms as advertised in the newspaper.

Mr. Herb Thorp, Attorney for BFI, began their presentation by noting that BFI was unable to forward their proposal prior to today, because of confidential constraints. Mr. Thorp noted that this is not an upset bid, but an "alternative proposal" to the BCH proposal.

Mr. Frank Gray, Project Mgr. for the southeastern region reviewed briefly their proposal. The proposal involves curbside recycling and the transfer of garbage from Cumberland County to a regional landfill in a neighboring county. Mr. Gray reviewed the cost of this program to Cumberland County. Cost of Cumberland County would be \$36.70 which they figure will save Cumberland County approximately \$1,138,371 annually. They noted that with their program the County would be able to close our Ann Street landfill. He noted he anticipated their project would be operational next year. He invited the Commissioners to visit BFI operations.

Commissioner Barber asked if this program would require mandatory recycling. Mr. Gray said no it would not because he felt through education the public would see the need for recycling voluntarily..

It was also asked if the citizens in the county where the regional landfill is to be located is aware of this project and the fact they will be accepting garbage from other counties. Evidently the formal announcement of this project has not yet been made.

Mr. Gray noted that they would be utilizing our baling facility at our Ann Street landfill and the garbage would be trucked to the new regional landfill site.

Mr. George Armistead, Jr., President of the BCH project, noted that it may not be a good idea to close down the county landfill and that EPA would prioritize a landfill as the lowest item on their priority list in controlling the environment.

Mr. Tom Gill, Dupont, stated he felt the BCH project was one that would work well for everyone and he had complete confidence in VEDCO. He noted DuPont would not get involved in a project of this magnitude without being sure it would work.

#### 11. Consideration of BCH Energy Project:

A. Second reading of the proposed franchise ordinance.

B. Consideration of the proposed landfill lease agreement.

C. Consideration of the proposed resource recovery agreement (draft).

Commissioner Evans said he was not yet ready to vote on the above ordinance and lease agreements. He said he would like to see an operation that is similar or exactly like the one proposed here before voting on the matter. Mr. Armistead stated he would make arrangements for the Board to visit two operations, one in Illinois and one in Wisconsin.

MOTION: Commissioner Barber offered a motion to delay action on this item

until December 16.
SECOND: Commissioner Gonzalez

VOTE: UNANIMOUS

MOTION: Commissioner Shaw offered a motion to adjourn.

SECOND: Commissioner Riddle

VOTE: UNANIMOUS

Clerk to the Board

# AN ORDINANCE GRANTING A FRANCHISE TO BCH ENERGY CORPORATION TO LEASE PORTIONS OF THE ANN STREET LANDFILL AND ITS EQUIPMENT TO SEPARATE MUNICIPAL SOLID WASTE INTO SALABLE RECYCLABLES AND FUEL

WHEREAS, the Board of County Commissioners of Cumberland County, North Carolina, finds and determines, upon application of BCH Energy Corporation, a North Carolina Corporation, for an exclusive franchise to lease certain property of Cumberland County known as the Ann Street Landfill Facility and its equipment for the purpose of separating municipal solid waste into salable recyclables and fuel, and upon due consideration of such application at two regular meetings of said Board, that it is necessary and in the best interest of said public that said franchise be granted;

NOW THEREFORE, IT IS HEREBY ORDERED:

- 1. GRANT OF FRANCHISE: That BCH Energy Corporation, a North Carolina Corporation, be, and it hereby is, granted an exclusive franchise to lease certain property of Cumberland County known as the Ann Street Landfill and described below for the purpose of separating municipal solid waste into salable recyclables and fuel.
- 2. <u>DESCRIPTION OF PROPERTY</u>: Ann Street Landfill Existing Facilities and Equipment to Include:
  - A. <u>FACILITIES</u> Consists of Baling Plant structure to include Tipping Floor Building Portion, Baler Floor Building Portion, surrounding concrete aprons, grounds shrubbery and area fencing.
  - B. FIXED EQUIPMENT Consists of two (2) Mosley SW-400 Balers (identified as JENNY and BULLWINKLE respectfully), two (2) Mayfran Steel Belt Conveyors, Model 9250T. Also includes installed electrical, Model 9250T. Also includes installed electrical, mechanical and other miscellaneous facility equipment for administration and operation of the facility.
  - C. AUXILIARY OPERATING EQUIPMENT Consists of two (2) Dressor 520-B Wheel Loaders, one (1) Dressor 515-B Wheel Loader, one (1) Case 1845 Uniloader, and one (1) Power Boss Sweeper.
  - D. MAINTENANCE PARTS AND OPERATING MATERIALS Consists of building and equipment spare parts stocks and miscellaneous repair and operating materials, i.e., cleaning and rebuild materials, wire strapping for baling waste, etc.
- 3. TERMS AND CONDITIONS OF FRANCHISE: That the terms and conditions of the franchise hereby granted are as set forth in the Landfill Lease and Franchise Agreement duly entered into by and between the County of Cumberland and BCH Energy Corporation on the date of enactment of this ordinance and incorporated by such reference into this ordinance. An executed original of such Landfill Lease and Franchise Agreement shall be on file in the Office of the Clerk to the Board of County Commissioners during the term of its effectiveness.

Adopted December 16, 1991, contingent upon satisfactory legal review to be completed no later than January 6, 1992. (Note: No further action required, unless legal review indicates action is necessary.)

\* Original of County Landfill Lease and Franchise Agreement to be maintained in the permanent files of the County Attorney for the duration of this agreement.